

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051625\
 Data File : BF142436.D
 Acq On : 16 May 2025 19:40
 Operator : RC/JU
 Sample : Q2055-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051525

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/19/2025
 Supervised By :Jagrut Upadhyay 05/19/2025

Quant Time: May 16 22:42:47 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	142013	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	492918	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	206842	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	316644	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	237684	20.000	ng	0.00
86) Perylene-d12	15.557	264	192132	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	671432	80.710	ng	0.00
7) Phenol-d6	6.522	99	781836	76.412	ng	0.00
23) Nitrobenzene-d5	7.457	82	460360	56.959	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	159496	79.867	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	806761	55.615	ng	0.00
79) Terphenyl-d14	13.010	244	684442	42.622	ng	0.00
Target Compounds						Qvalue
52) Acenaphthene	9.969	154	24145	2.035	ng	95
58) Fluorene	10.480	166	44321	3.317	ng	98
71) Phenanthrene	11.445	178	439332	26.469	ng	99
72) Anthracene	11.498	178	105498	6.186	ng	98
73) Carbazole	11.651	167	73694	4.816	ng	99
75) Fluoranthene	12.639	202	757472	45.654	ng	98
78) Pyrene	12.868	202	647605	30.611	ng	99
81) Benzo(a)anthracene	14.051	228	279263	18.143	ng	97
83) Chrysene	14.086	228	245488	17.132	ng	97
87) Indeno(1,2,3-cd)pyrene	17.051	276	100988m	7.556	ng	
88) Benzo(b)fluoranthene	15.115	252	267362m	22.976	ng	
89) Benzo(k)fluoranthene	15.133	252	85292m	8.009	ng	
90) Benzo(a)pyrene	15.492	252	183411	17.589	ng	99
91) Dibenzo(a,h)anthracene	17.062	278	24983	2.263	ng	# 87
92) Benzo(g,h,i)perylene	17.509	276	102006	9.308	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

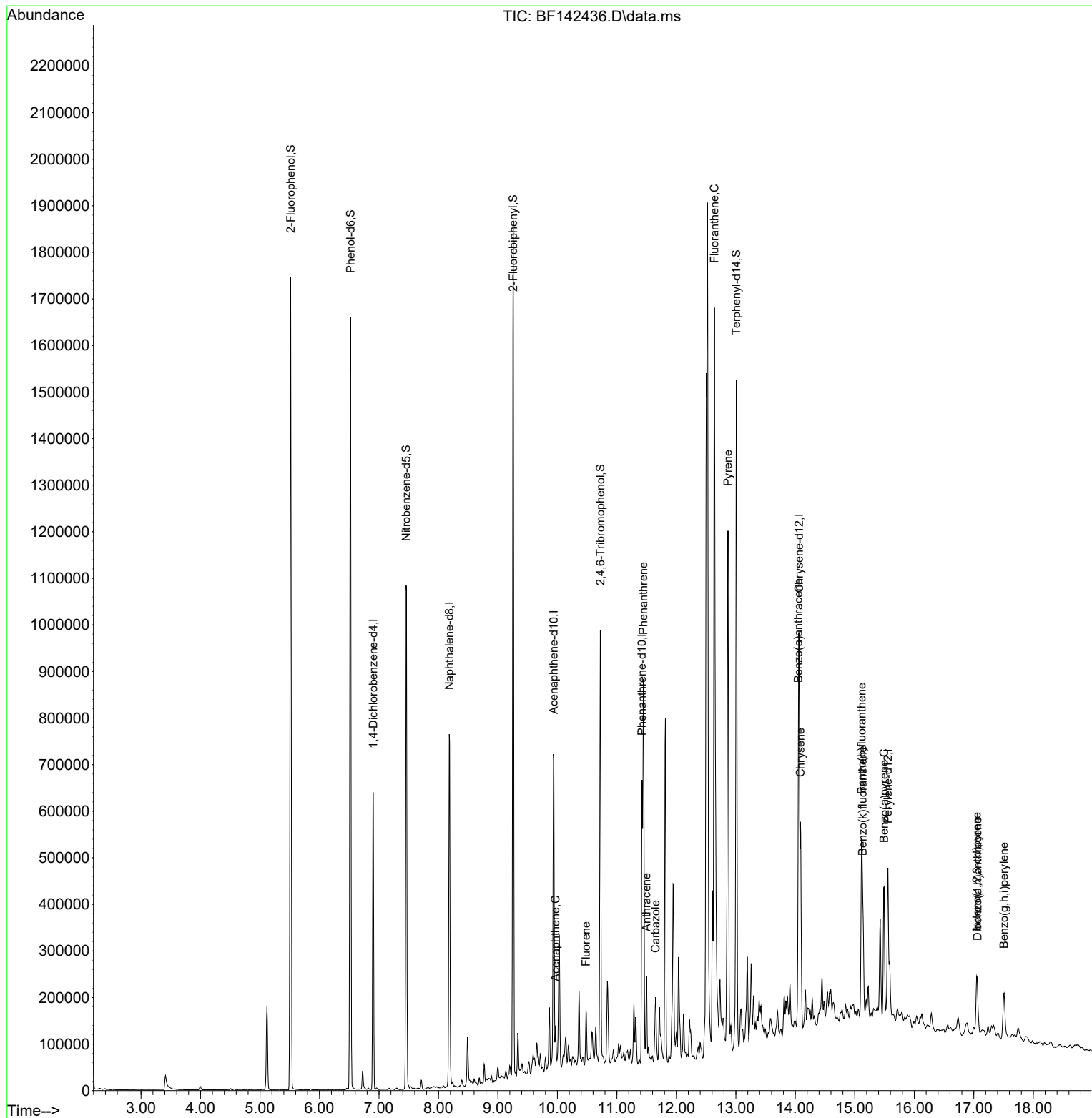
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051625\
Data File : BF142436.D
Acq On : 16 May 2025 19:40
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ALS Vial : 22 Sample Multiplier: 1

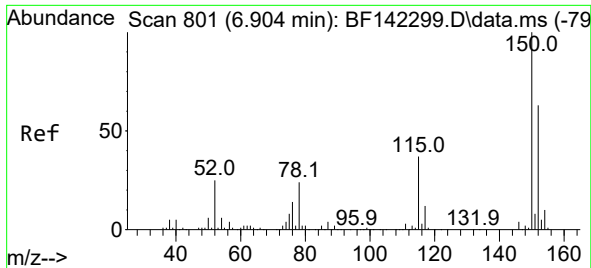
Instrument :
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Quant Time: May 16 22:42:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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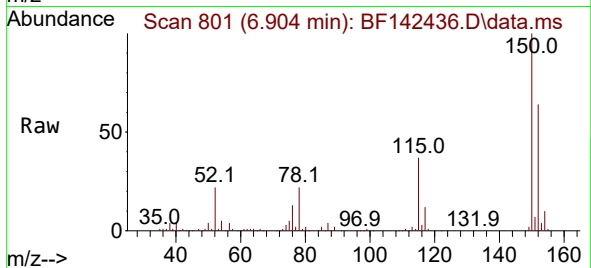
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 801
Delta R.T. 0.000 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

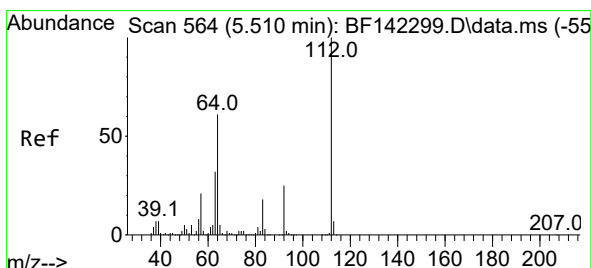
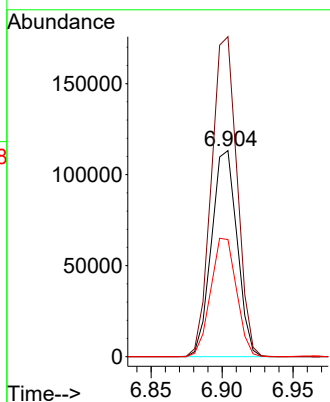
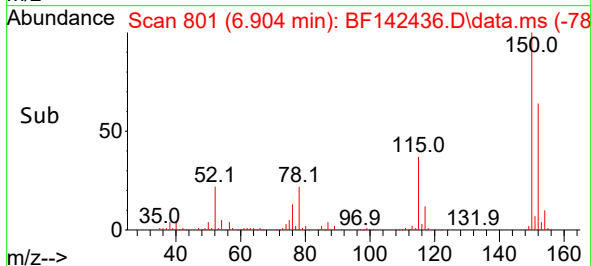
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



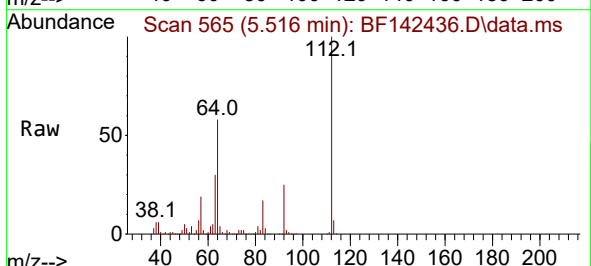
Tgt Ion:152 Resp: 14201
Ion Ratio Lower Upper
152 100
150 155.3 126.6 190.0
115 56.9 47.3 70.9

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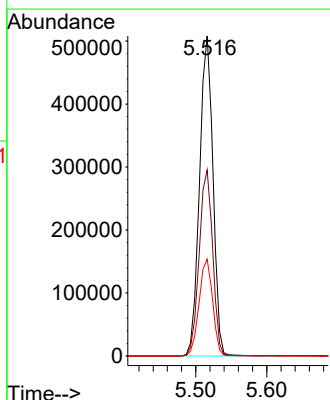
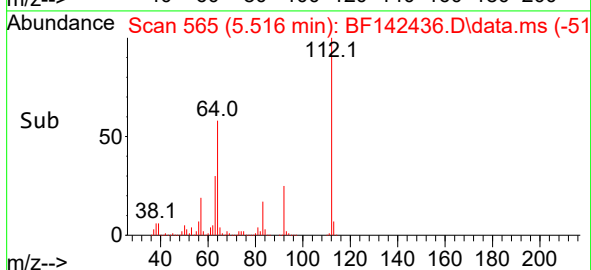
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025

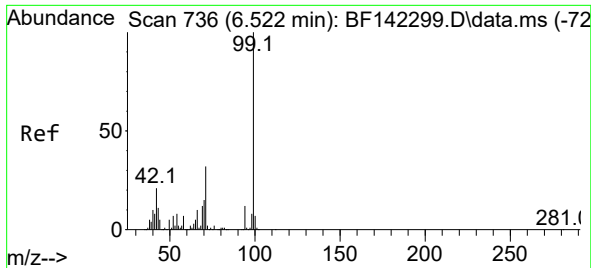


#5
2-Fluorophenol
Concen: 80.710 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40



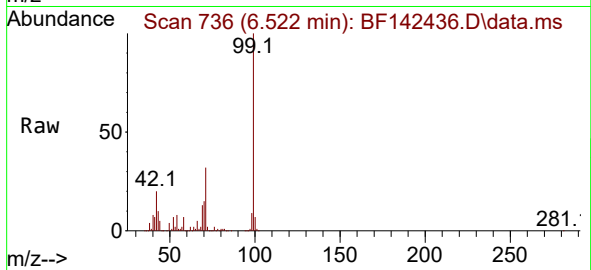
Tgt Ion:112 Resp: 671432
Ion Ratio Lower Upper
112 100
64 58.2 48.9 73.3
63 30.2 25.6 38.4





#7
Phenol-d6
Concen: 76.412 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

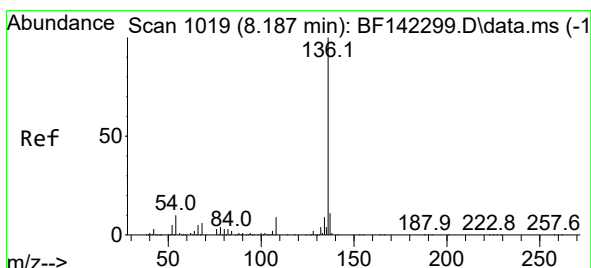
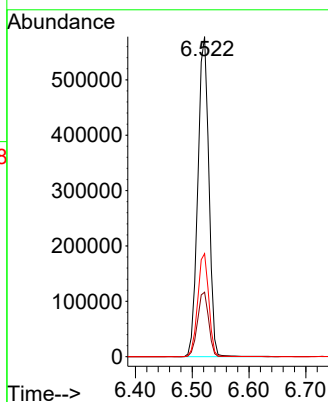
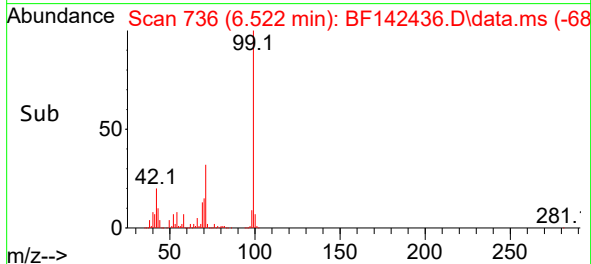
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



Tgt Ion: 99 Resp: 781830
Ion Ratio Lower Upper
99 100
42 20.2 17.0 25.4
71 32.2 25.8 38.8

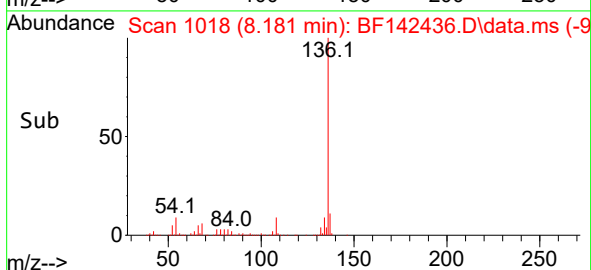
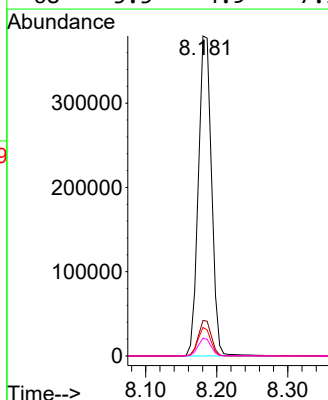
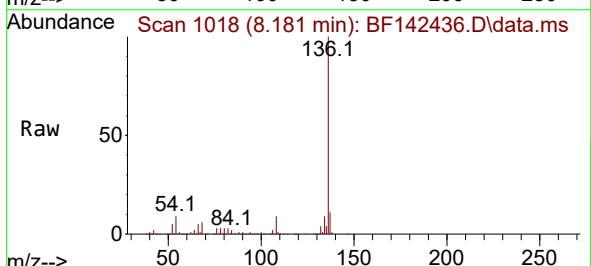
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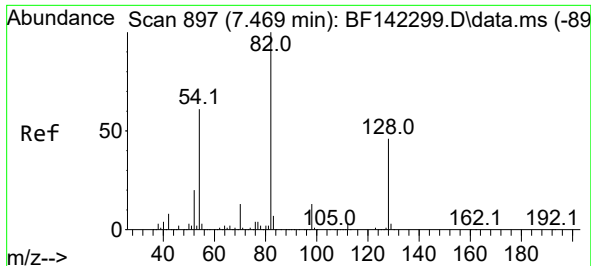
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

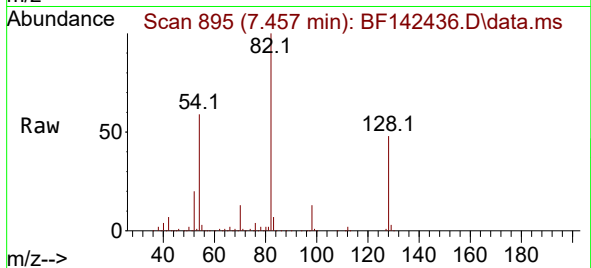
Tgt Ion:136 Resp: 492918
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.9 7.7 11.5
68 5.5 4.9 7.3





#23
Nitrobenzene-d5
Concen: 56.959 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

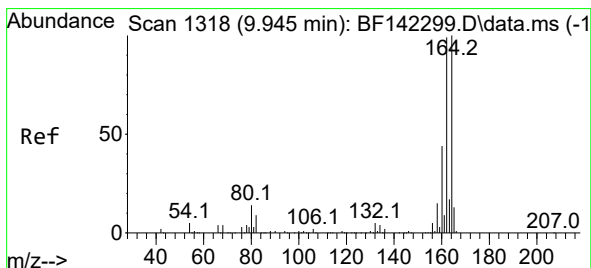
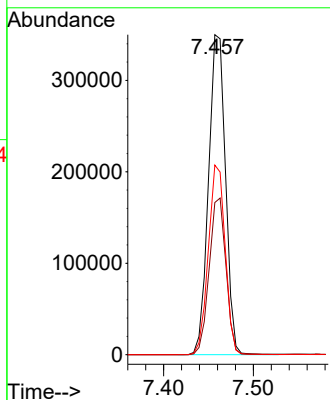
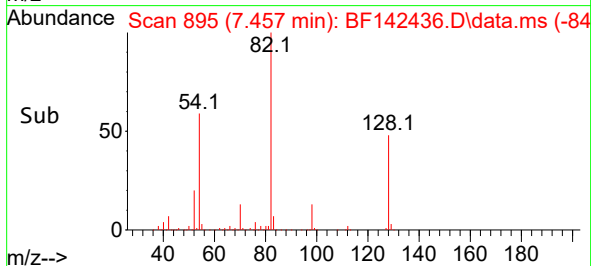
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



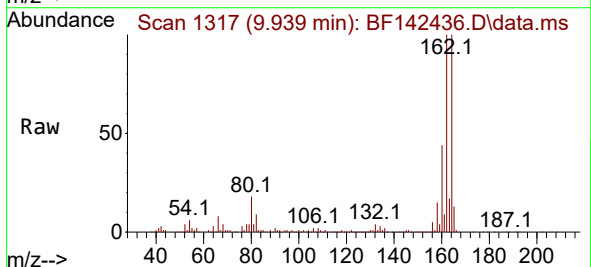
Tgt Ion: 82 Resp: 460360
Ion Ratio Lower Upper
82 100
128 47.6 37.0 55.6
54 59.3 48.6 73.0

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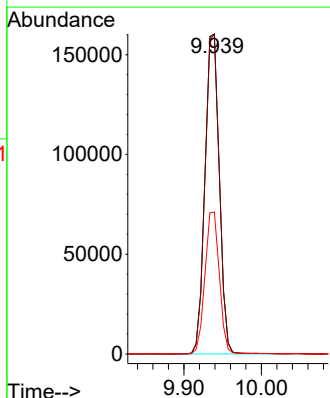
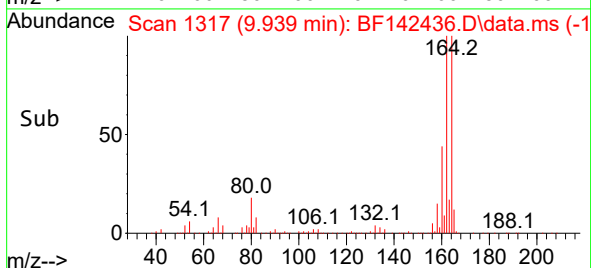
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025

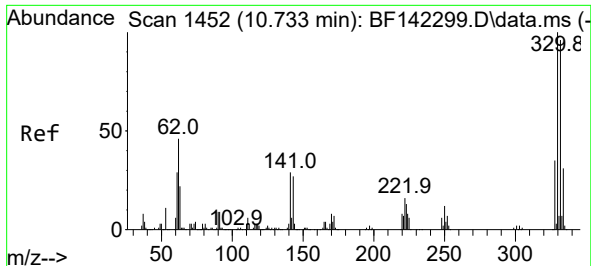


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40



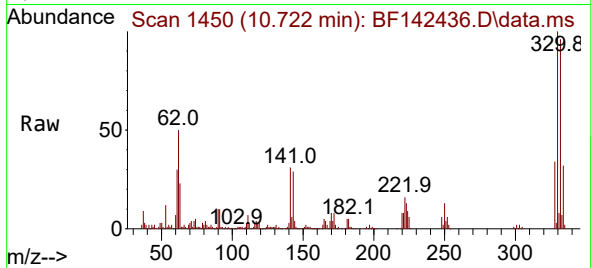
Tgt Ion:164 Resp: 206842
Ion Ratio Lower Upper
164 100
162 99.7 79.2 118.8
160 44.3 35.3 52.9





#42
2,4,6-Tribromophenol
Concen: 79.867 ng
RT: 10.722 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

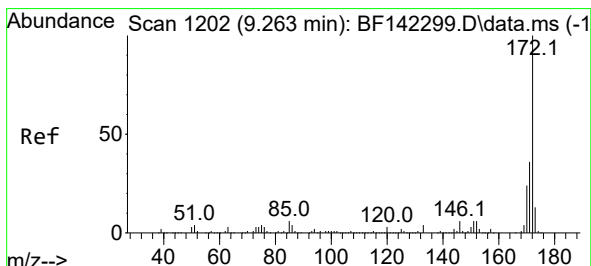
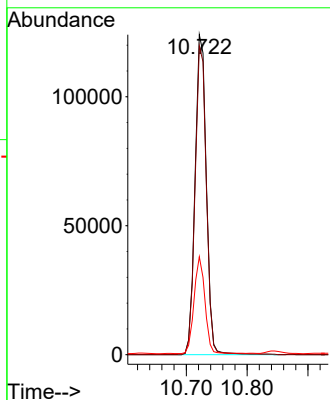
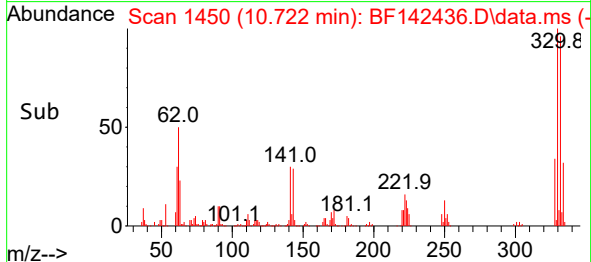
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



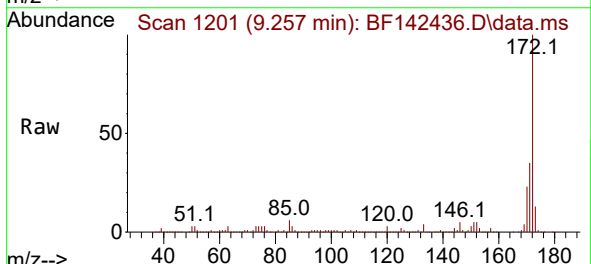
Tgt Ion: 330 Resp: 159490
Ion Ratio Lower Upper
330 100
332 96.4 76.8 115.2
141 29.2 24.9 37.3

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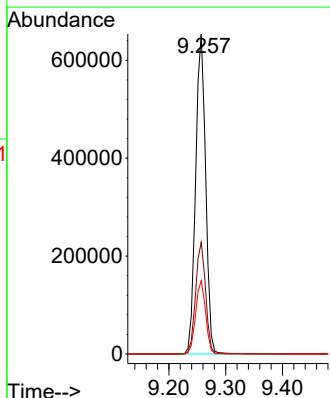
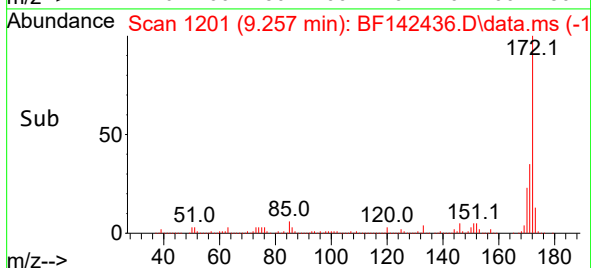
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025

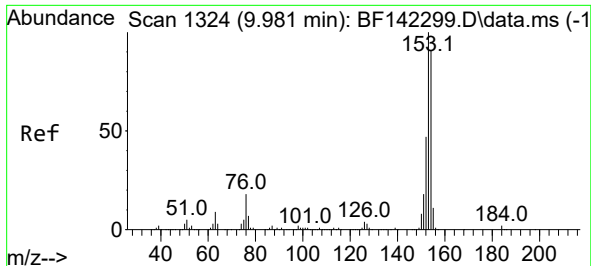


#45
2-Fluorobiphenyl
Concen: 55.615 ng
RT: 9.257 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40



Tgt Ion: 172 Resp: 806761
Ion Ratio Lower Upper
172 100
171 34.9 28.6 42.8
170 22.9 19.0 28.4





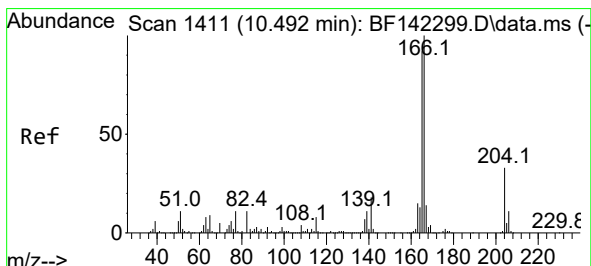
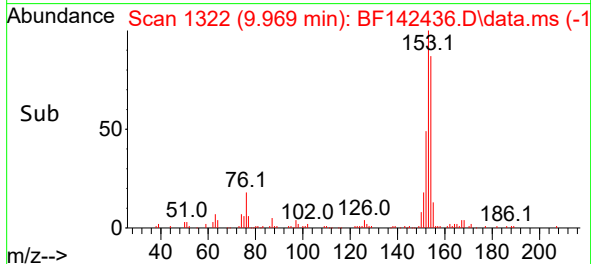
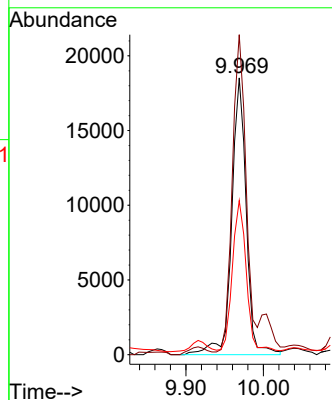
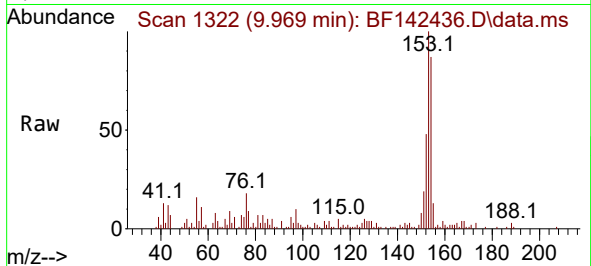
#52
Acenaphthene
Concen: 2.035 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Instrument :
BNA_F
ClientSampleId :
OR-02-051525

Tgt Ion:154 Resp: 2414
Ion Ratio Lower Upper
154 100
153 115.6 88.0 132.0
152 55.7 41.6 62.4

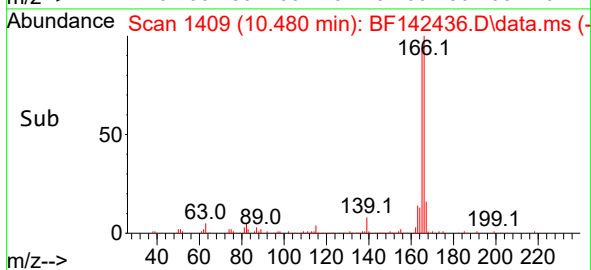
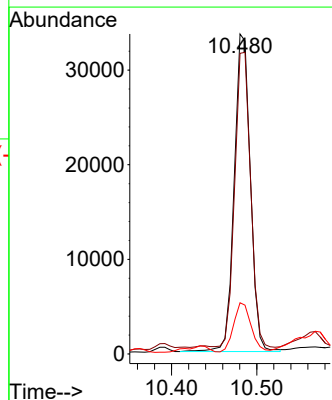
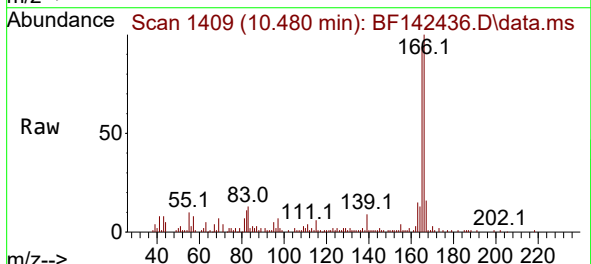
Manual Integrations
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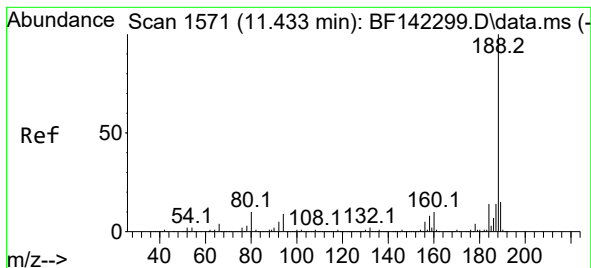
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025



#58
Fluorene
Concen: 3.317 ng
RT: 10.480 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:166 Resp: 44321
Ion Ratio Lower Upper
166 100
165 94.0 74.0 111.0
167 16.0 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1569

Delta R.T. -0.012 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

Tgt Ion:188 Resp: 31664

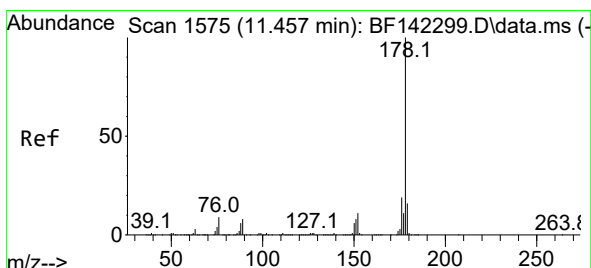
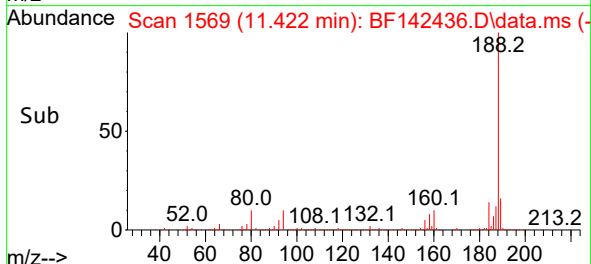
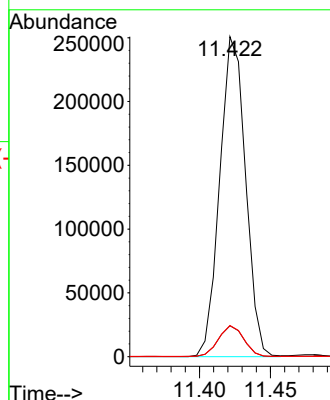
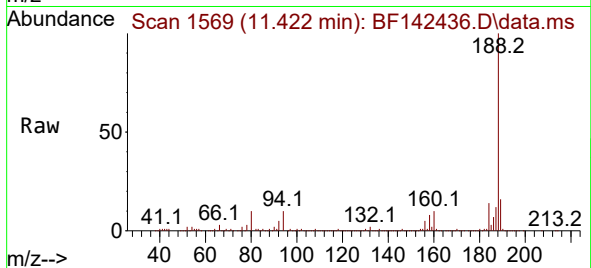
Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.5	11.3
80	9.7	7.9	11.9

Manual Integrations

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Reviewed By :Rahul Chavli 05/19/2025

Supervised By :Jagrut Upadhyay 05/19/2025



#71

Phenanthrene

Concen: 26.469 ng

RT: 11.445 min Scan# 1573

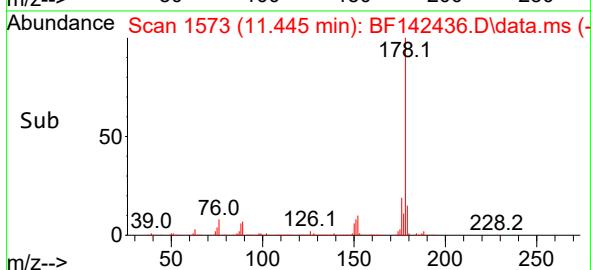
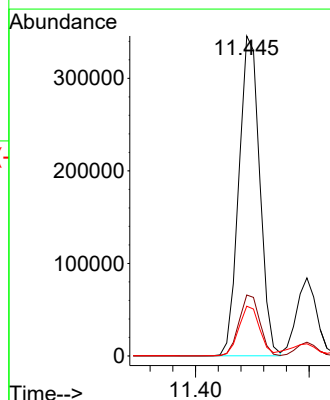
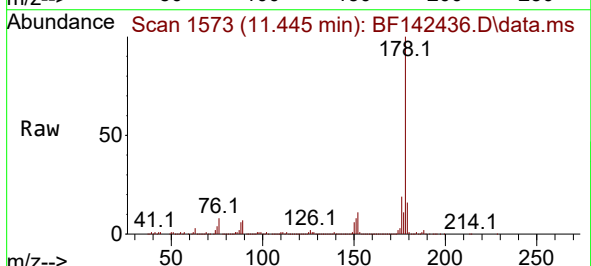
Delta R.T. -0.012 min

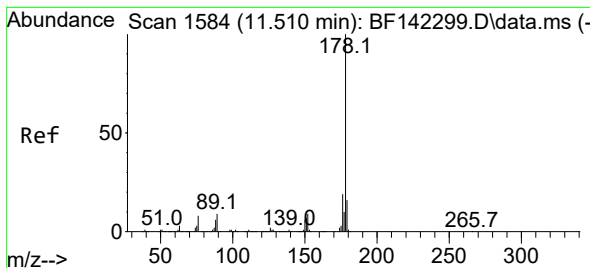
Lab File: BF142436.D

Acq: 16 May 2025 19:40

Tgt Ion:178 Resp: 439332

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.5	23.3
179	15.5	12.6	18.8





#72

Anthracene

Concen: 6.186 ng

RT: 11.498 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

Tgt Ion:178 Resp: 105498

Ion Ratio Lower Upper

178 100

176 17.7 15.3 22.9

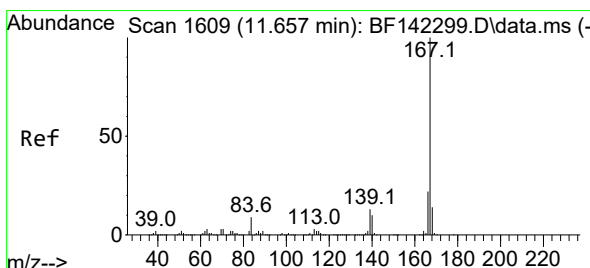
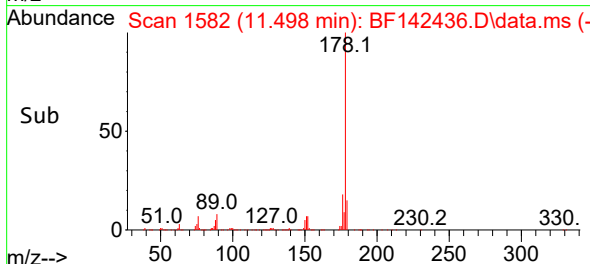
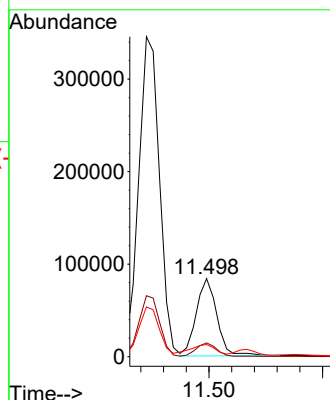
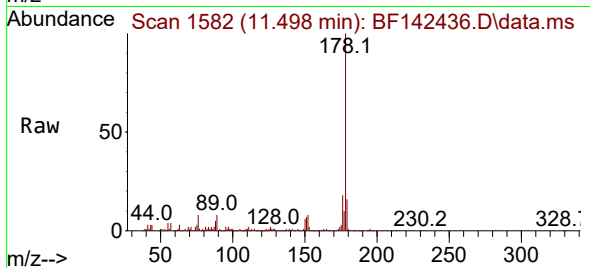
179 15.6 12.6 18.8

Manual Integrations

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Reviewed By :Rahul Chavli 05/19/2025

Supervised By :Jagrut Upadhyay 05/19/2025



#73

Carbazole

Concen: 4.816 ng

RT: 11.651 min Scan# 1608

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

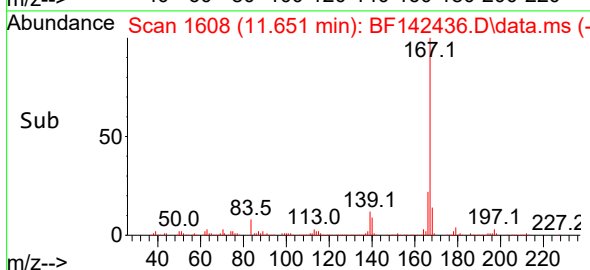
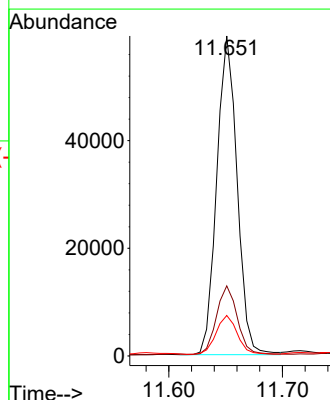
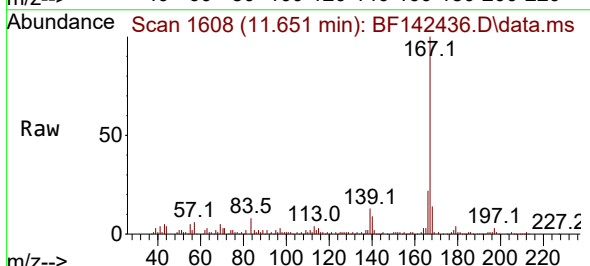
Tgt Ion:167 Resp: 73694

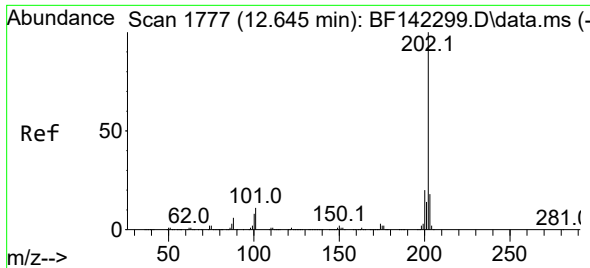
Ion Ratio Lower Upper

167 100

166 21.9 17.2 25.8

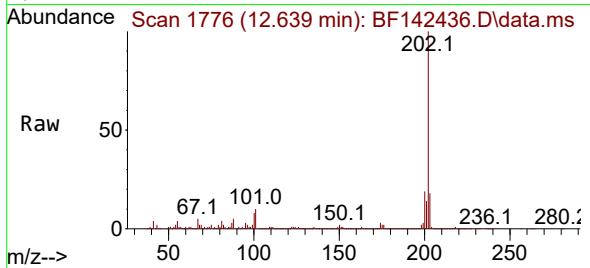
139 12.7 10.3 15.5





#75
Fluoranthene
Concen: 45.654 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

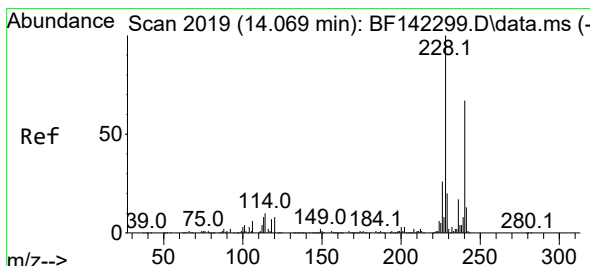
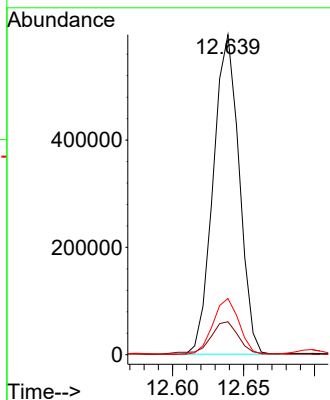
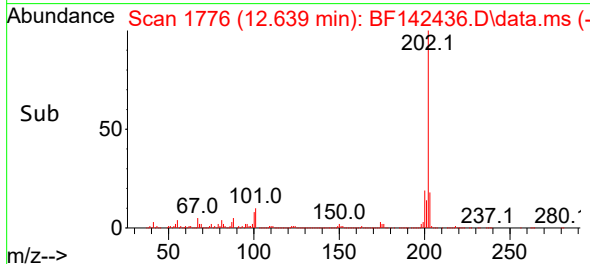
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



Tgt Ion:202 Resp: 757472
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.4
203 17.6 0.0 37.9

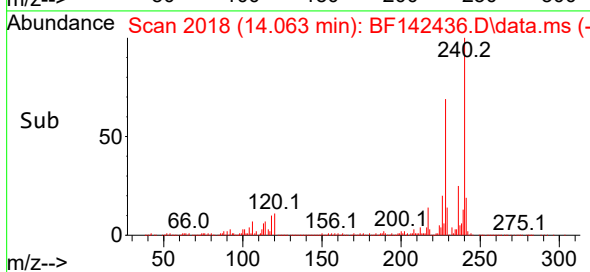
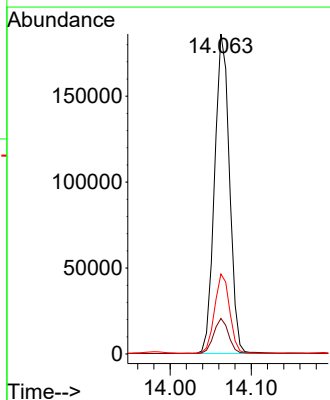
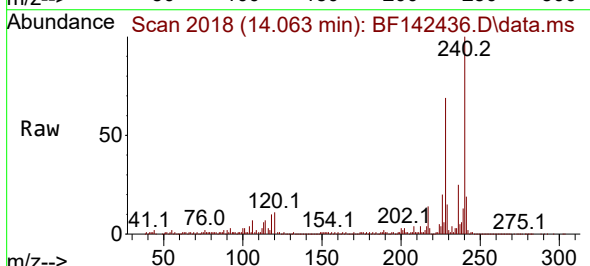
Manual Integrations
APPROVED

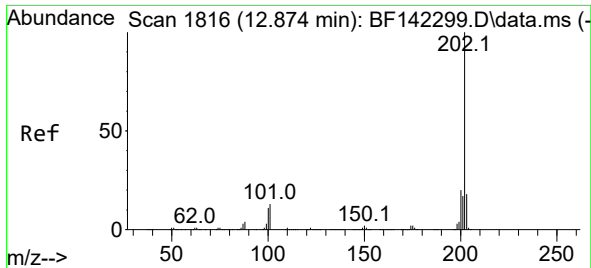
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

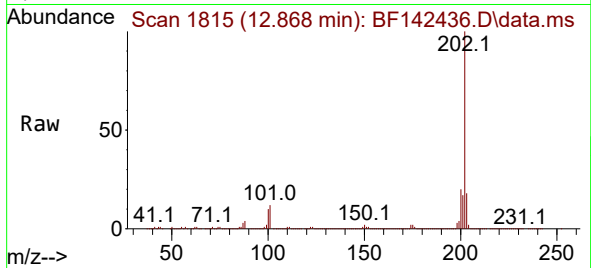
Tgt Ion:240 Resp: 237684
Ion Ratio Lower Upper
240 100
120 11.1 9.7 14.5
236 25.0 20.0 30.0





#78
Pyrene
Concen: 30.611 ng
RT: 12.868 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

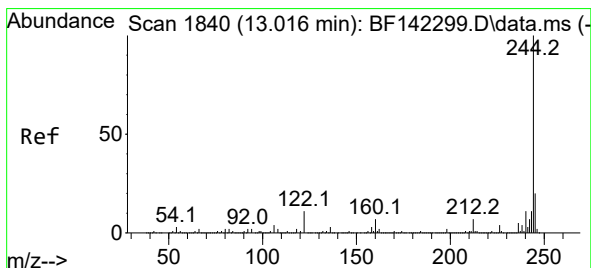
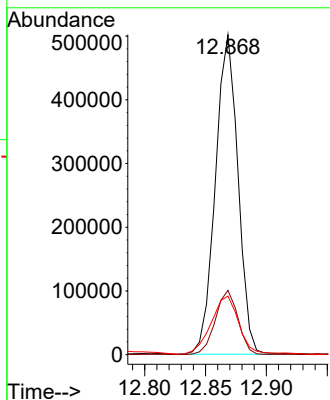
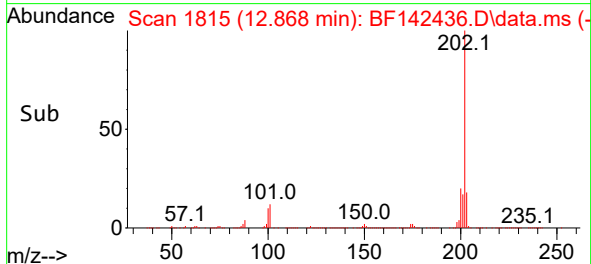
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



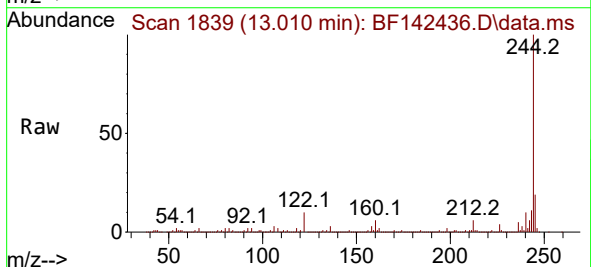
Tgt Ion:202 Resp: 647609
Ion Ratio Lower Upper
202 100
200 20.1 16.2 24.4
203 18.3 14.3 21.5

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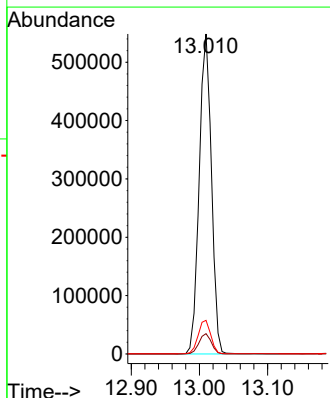
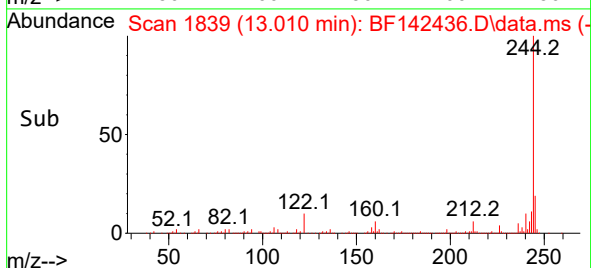
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025

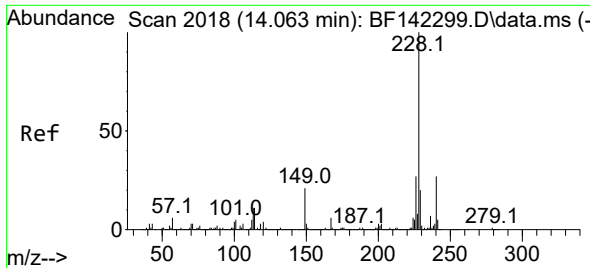


#79
Terphenyl-d14
Concen: 42.622 ng
RT: 13.010 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40



Tgt Ion:244 Resp: 684442
Ion Ratio Lower Upper
244 100
212 6.4 5.4 8.2
122 10.5 9.0 13.4





#81
Benzo(a)anthracene
Concen: 18.143 ng
RT: 14.051 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

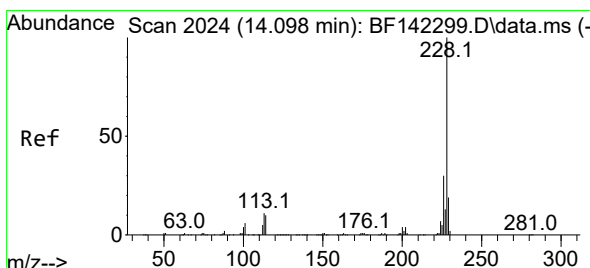
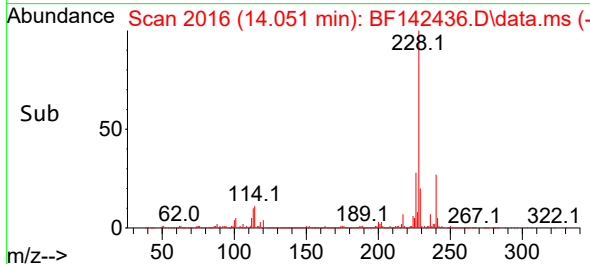
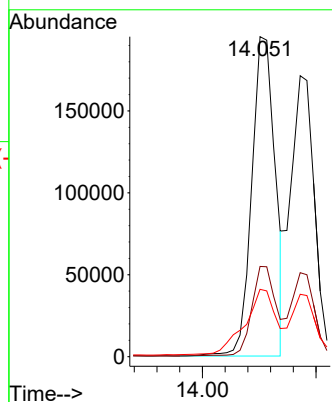
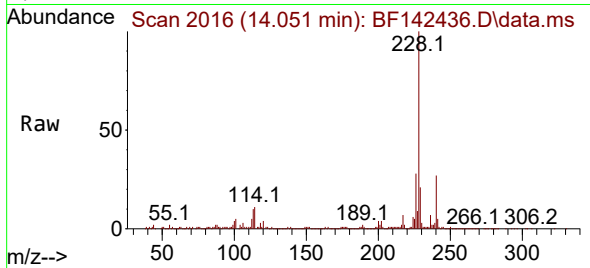
Tgt Ion:228 Resp: 27926
Ion Ratio Lower Upper
228 100
226 28.2 21.5 32.3
229 21.1 15.9 23.9

Manual Integrations

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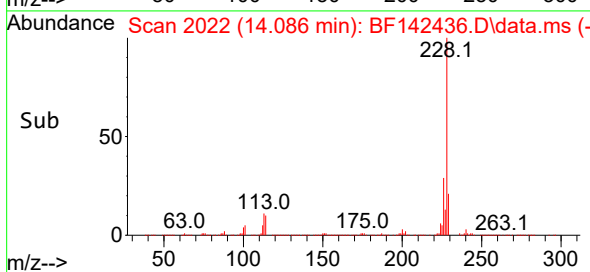
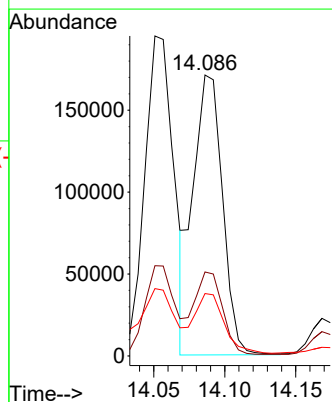
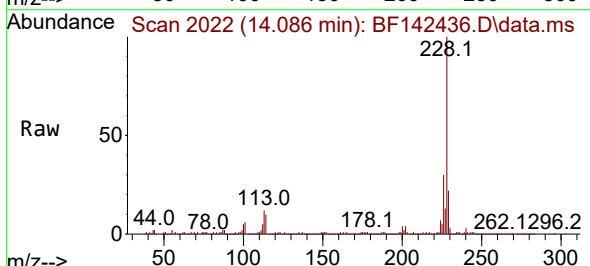
Reviewed By :Rahul Chavli 05/19/2025

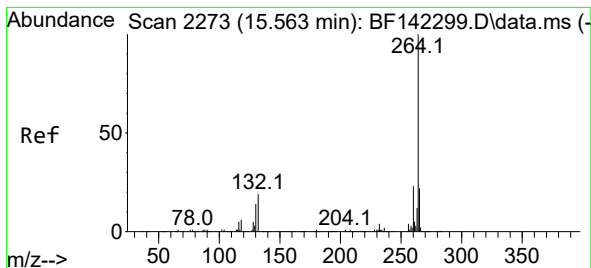
Supervised By :Jagrut Upadhyay 05/19/2025



#83
Chrysene
Concen: 17.132 ng
RT: 14.086 min Scan# 2022
Delta R.T. -0.012 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

Tgt Ion:228 Resp: 245488
Ion Ratio Lower Upper
228 100
226 29.9 23.9 35.9
229 22.2 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

Instrument :

BNA_F

ClientSampleId :

OR-02-051525

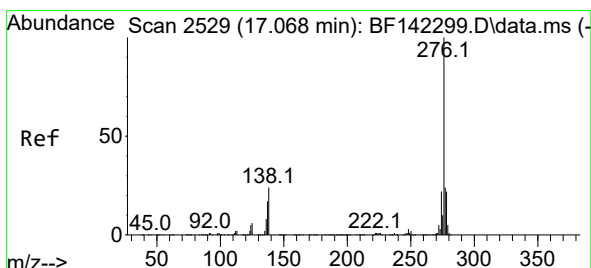
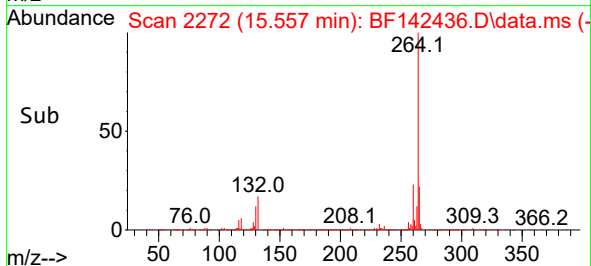
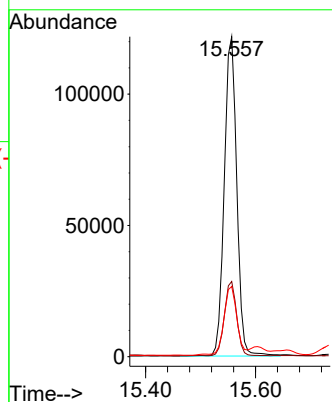
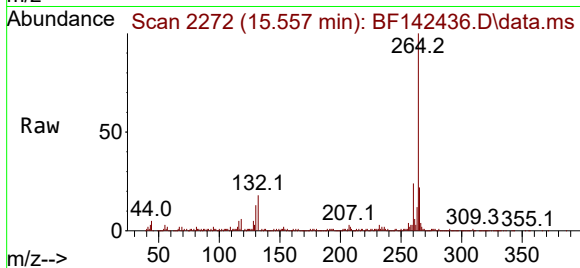
Tgt Ion:	264	Resp:	19213
Ion Ratio	Lower	Upper	
264	100		
260	23.5	18.6	27.8
265	22.0	17.5	26.3

Manual Integrations

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Reviewed By :Rahul Chavli 05/19/2025

Supervised By :Jagrut Upadhyay 05/19/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.556 ng m

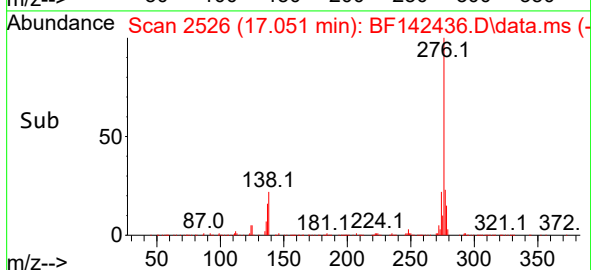
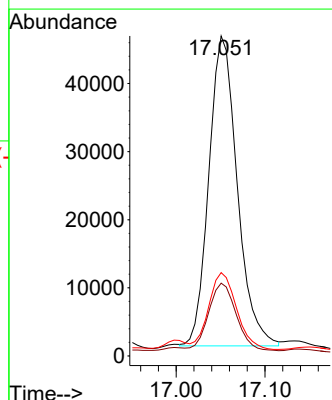
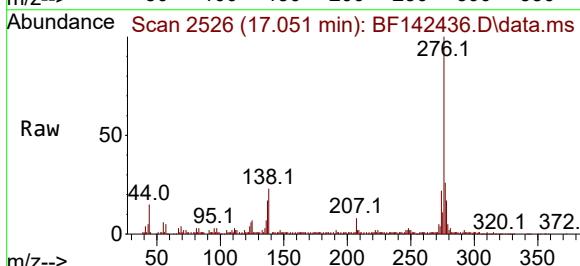
RT: 17.051 min Scan# 2526

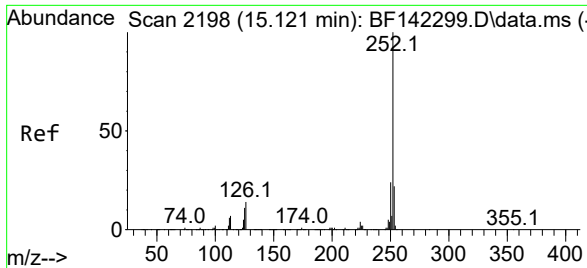
Delta R.T. -0.018 min

Lab File: BF142436.D

Acq: 16 May 2025 19:40

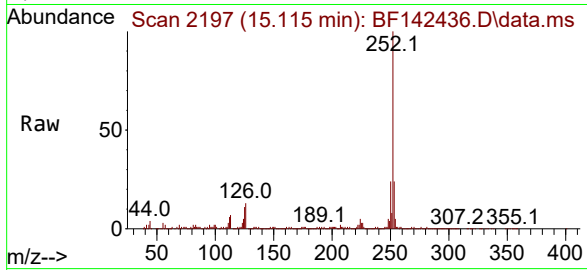
Tgt Ion:	276	Resp:	100988
Ion Ratio	Lower	Upper	
276	100		
138	4.6	22.0	33.0#
277	4.3	20.1	30.1#





#88
Benzo(b)fluoranthene
Concen: 22.976 ng m
RT: 15.115 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

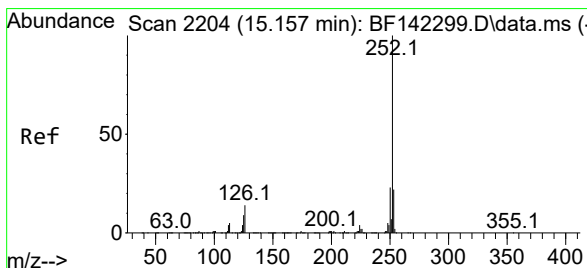
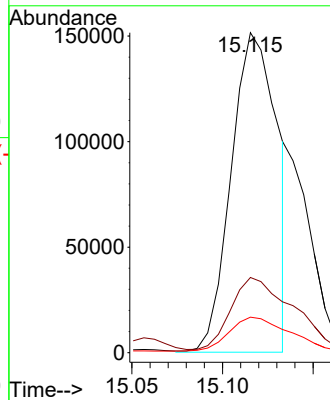
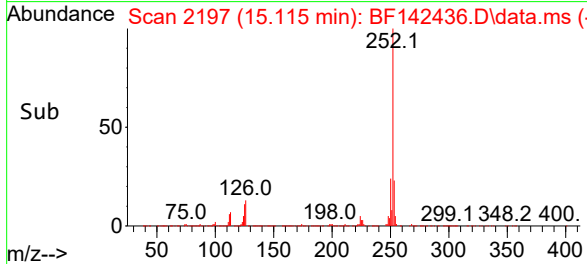
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



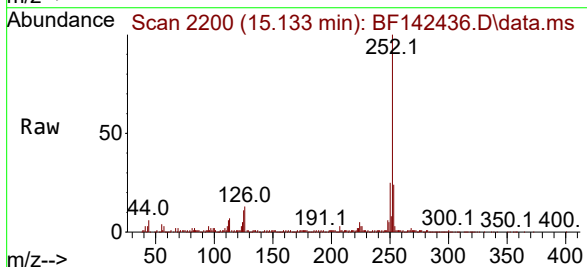
Tgt Ion:252 Resp: 267362
Ion Ratio Lower Upper
252 100
253 23.5 17.7 26.5
125 11.1 8.7 13.1

Manual Integrations
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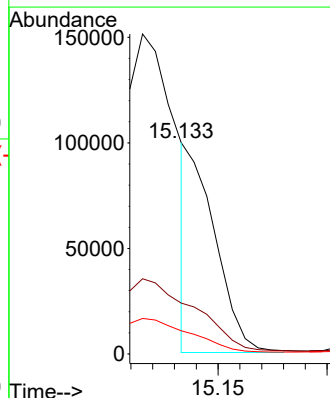
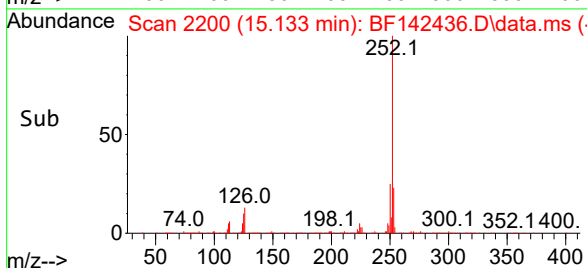
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025

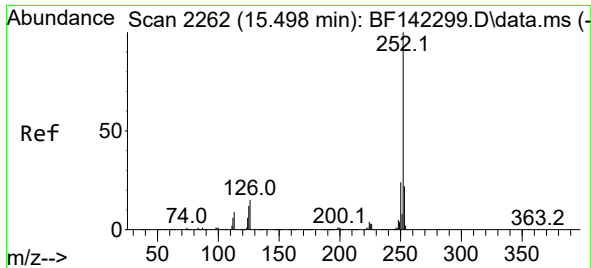


#89
Benzo(k)fluoranthene
Concen: 8.009 ng m
RT: 15.133 min Scan# 2200
Delta R.T. -0.024 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40



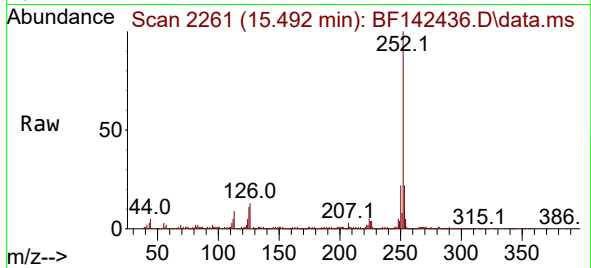
Tgt Ion:252 Resp: 85292
Ion Ratio Lower Upper
252 100
253 24.1 17.6 26.4
125 11.0 8.1 12.1





#90
Benzo(a)pyrene
Concen: 17.589 ng
RT: 15.492 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

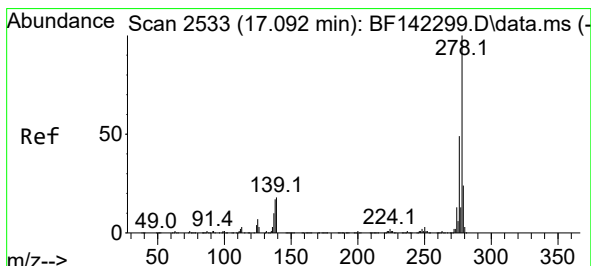
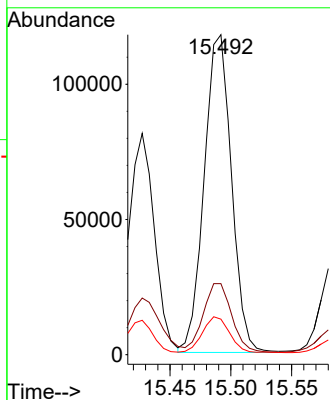
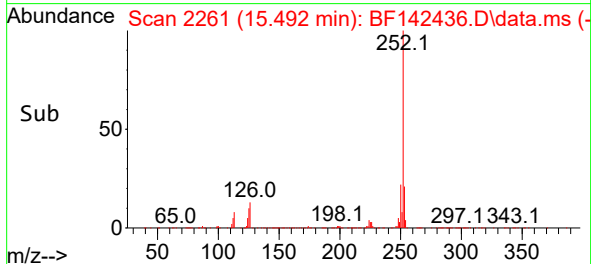
Instrument :
BNA_F
ClientSampleId :
OR-02-051525



Tgt Ion:252 Resp: 18341
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.6
125 11.1 9.4 14.0

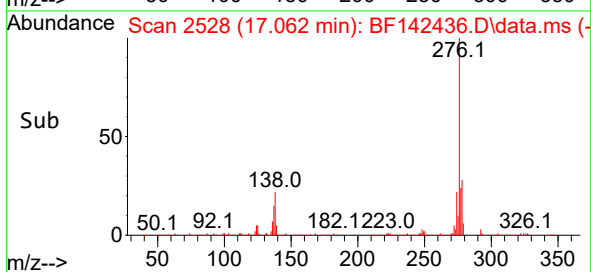
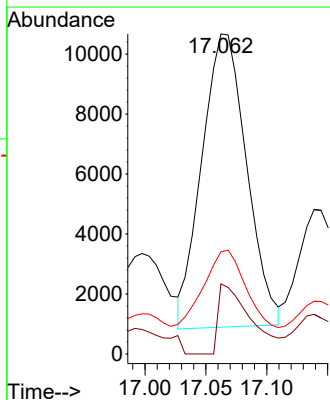
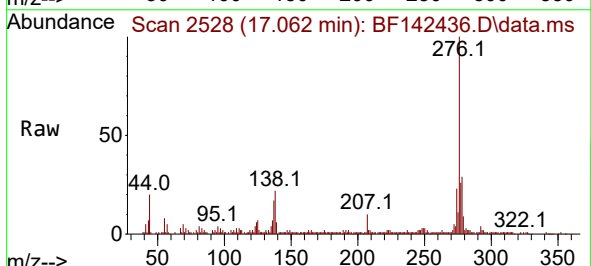
Manual Integrations
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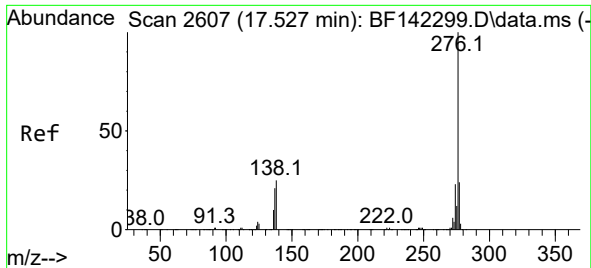
Reviewed By :Rahul Chavli 05/19/2025
Supervised By :Jagrut Upadhyay 05/19/2025



#91
Dibenzo(a,h)anthracene
Concen: 2.263 ng
RT: 17.062 min Scan# 2528
Delta R.T. -0.030 min
Lab File: BF142436.D
Acq: 16 May 2025 19:40

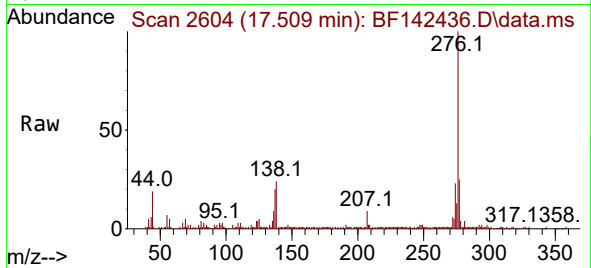
Tgt Ion:278 Resp: 24983
Ion Ratio Lower Upper
278 100
139 21.9 14.5 21.7#
279 31.9 18.9 28.3#





#92
 Benzo(g,h,i)perylene
 Concen: 9.308 ng
 RT: 17.509 min Scan# 20
 Delta R.T. -0.018 min
 Lab File: BF142436.D
 Acq: 16 May 2025 19:40

Instrument :
 BNA_F
 ClientSampleId :
 OR-02-051525



Tgt Ion:	276	Resp:	102000
Ion Ratio	Lower	Upper	
276	100		
277	25.1	19.0	28.6
138	23.7	19.8	29.6

Manual Integrations
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Reviewed By :Rahul Chavli 05/19/2025
 Supervised By :Jagrut Upadhyay 05/19/2025

